

Training and Evaluation Outline Report

Task Number: 05-3-5733

Task Title: Perform Power Plant and Distribution Equipment Shipment

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the Fort Leonard Wood, MO foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Supporting Reference(s):

| Step Number | Reference ID | Reference Name | Required | Primary |
|-------------|---|---|----------|---------|
| | ATP 5-19 (Change 001 09/08/2014 78 Pages) | RISK MANAGEMENT http://armypubs.army.mil/doctrine/DR_pubs/dr_a/pdf/atp5_19.pdf | Yes | No |
| | DA FORM 2258 | DEPRESERVATION GUIDE FOR VEHICLES AND EQUIPMENT | Yes | No |
| | TM 3-34.45 | ENGINEER PRIME POWER OPERATIONS | Yes | Yes |
| | TM 3-34.85 | ENGINEER FIELD DATA {MCRP 3-17A} https://armypubs.us.army.mil/doctrine/DR_pubs/dr_b/pdf/tm3_34x85.pdf | Yes | No |
| | TM 5-6120-250-12 | OPERATORS AND ORGANIZATIONAL MAINTENANCE MANUAL FOR SUBSTATIONS, TRAILER MTD, 500 KVA, AC, 4160-416Y/240 V;208Y/120 V, 3 PHASE, 50/60 HZ (AVIONICS MODEL 950-2200A) (FSN 6120-422-1047) | Yes | No |
| | TM 5-682 | Facilities Engineering: Electrical Facilities Safety. | Yes | No |

Condition: The element is directed to move power plant and distribution equipment from a station to a designated port of debarkation (POD) or a new operating site. Specific model generator set(s), auxiliary support equipment, and distribution system equipment are specified. Movement orders, an operations order (OPORD), and all assigned personnel and equipment are available. This task should not be trained in MOPP 4.

Standard: The element prepares, moves, and/or ships the power plant and distribution system equipment from its current location, to arrive at the port of debarkation or a new site of operation, as specified in the movement order and operations order (OPORD).

Safety Risk: Medium

Task Statements

Cue: None

DANGER

NA

WARNING

NA

CAUTION

None

Remarks: None

Notes: None

TASK STEPS

- * 1. The element leader coordinates the following external support requirements for moving the power plant and distribution equipment:
 - a. Transportation.
 - b. Materials handling equipment.
 - c. Fabrication of packing and crating containers.
2. The element assesses the operational condition of the power plant and distribution equipment to be shipped.
 - a. Identifies uncorrected faults that could cause an equipment deadline.
 - b. Determines serviceability of auxiliary support systems and equipment.
 - c. Updates the equipment uncorrected fault record.
3. The element identifies and inventories the following items of the power plant and distribution equipment to be shipped:
 - a. Major end items of equipment.
 - b. Power plant and distribution system installation components.
 - c. Start-up supplies and materials.
 - d. Prescribed load list (PLL).
 - e. Special items and materials, as specified in the mission directive.
 - f. Special tools for installing and preparing specific model generator set and/or items of distribution equipment.
4. The element obtains materials and tools for rigging and shipping equipment.
5. The element performs a work project hazard assessment.
- * 6. The element leader performs a work project safety briefing, reviewing the following requirements:
 - a. Personal protective equipment (PPE).
 - b. Vehicle and materials handling equipment ground guides.
 - c. Hand signals for directing materials handling equipment.
 - d. Individual safe conduct on the job.
 - e. Safe use and handling of flammable, combustible, and hazardous materials.
 - f. Safe clearance and caution procedures.
 - g. Job hazard, assessment driven safety and environmental concerns.

7. The element prepares equipment and materials for shipment.

- a. Prepares required Department of the Army (DA) forms.
- b. Processes mechanical, electrical, and instrumentation equipment according to approved procedures.
- c. Packs, crates and tags components and materials according to approved procedures.
- d. Prepares equipment for quarantine as directed by the shipping instructions.
- e. Prepares and uses a generator set internal load plan.
- f. Packs the PLL and/or the additional authorization list (AAL).
- g. Packs the equipment over pack items.

8. The element develops the loading plan and directs the loading of auxiliary components, materials, and supplies into individual generator sets.

9. The element inspects shipping labels for accuracy.

10. The element directs the rigging and loading of power plant and distribution equipment on the transport vehicle(s).

- a. Follows the equipment loading plan.
- b. Inspects the rigging equipment before use.
- c. Verifies the materials handling equipment lifting capacity and general operation condition.
- d. Inspects the rigging and loading of equipment on the transport vehicle.
- e. Briefs transport operator(s) on special handling and transportation considerations.
- f. Briefs transport operator(s) on critical road information.
- g. Briefs transport operator(s) on point of destination and point of contact for receiving the transported equipment.

* 11. The element leader submits status reports to higher headquarters (HQ) in accordance with unit standing operating procedure.

(Asterisks indicates a leader performance step.)

| PERFORMANCE MEASURES | GO | NO-GO | N/A |
|---|----|-------|-----|
| 1. The element leader coordinated external support for unit movement. | | | |
| 2. The element assessed the operational condition of the power plant and distribution equipment being shipped. | | | |
| 3. The element inventoried equipment and materials to be shipped. | | | |
| 4. The element obtained materials and tools for rigging and shipping equipment. | | | |
| 5. The element performed a work project hazard assessment. | | | |
| 6. The element leader presented a work project safety briefing. | | | |
| 7. The element prepared equipment and materials for shipment. | | | |
| 8. The element developed the loading plan and directed the loading of auxiliary components, materials, and supplies into individual generator sets. | | | |
| 9. The element inspected shipping labels for accuracy. | | | |
| 10. The element directed the rigging and loading of power plant and distribution equipment on the transport vehicle(s). | | | |
| 11. The element leader submitted status reports to higher headquarters (HQ) in accordance with unit standing operating procedure (SOP). | | | |

| TASK PERFORMANCE / EVALUATION SUMMARY BLOCK | | | | | | | |
|---|---|---|---|---|---|---|-------|
| ITERATION | 1 | 2 | 3 | 4 | 5 | M | TOTAL |
| TOTAL PERFORMANCE MEASURES EVALUATED | | | | | | | |
| TOTAL PERFORMANCE MEASURES GO | | | | | | | |
| TRAINING STATUS GO/NO-GO | | | | | | | |

ITERATION: 1 2 3 4 5 M

COMMANDER/LEADER ASSESSMENT: T P U

Mission(s) supported: None

MOPP 4: Never

MOPP 4 Statement: None

NVG: Never

NVG Statement: None

Prerequisite Collective Task(s):

| Step Number | Task Number | Title | Proponent | Status |
|-------------|-------------|--|-----------------------------|----------|
| | 05-2-0007 | Prepare an Operation Order (OPORD) (Company/Platoon) | 05 - Engineers (Collective) | Approved |

Supporting Collective Task(s):

| Step Number | Task Number | Title | Proponent | Status |
|-------------|-------------|--|-----------------------------|----------|
| | 05-2-0017 | Plan for Engineer Augmentation Support | 05 - Engineers (Collective) | Approved |

Supporting Individual Task(s):

| Step Number | Task Number | Title | Proponent | Status |
|-------------|--------------|--|-----------------------------|----------|
| | 052-204-1119 | Perform Operator Preventive-Maintenance Checks and Services (PMCS) on a Line Truck With Auxiliary Equipment | 052 - Engineer (Individual) | Approved |
| | 052-204-1202 | Maintain Rigging/Hoisting Equipment | 052 - Engineer (Individual) | Approved |
| | 052-204-1204 | Tie Rope Knots and Splices | 052 - Engineer (Individual) | Approved |
| | 052-204-2207 | Conduct a Safety Briefing | 052 - Engineer (Individual) | Approved |
| | 052-204-2208 | Conduct a Safety Inspection | 052 - Engineer (Individual) | Approved |
| | 052-204-2211 | Develop a Bill of Materials (BOM) List | 052 - Engineer (Individual) | Approved |
| | 052-204-2301 | Perform Switching, Blocking and Tagging Procedures | 052 - Engineer (Individual) | Approved |
| | 052-204-2305 | Trouble Shoot Primary/Secondary Voltage Systems | 052 - Engineer (Individual) | Approved |
| | 052-210-1117 | Design a Temporary Medium Voltage Distribution System | 052 - Engineer (Individual) | Approved |
| | 052-210-1141 | Manage Power Generation and Distribution Equipment Operations | 052 - Engineer (Individual) | Approved |
| | 052-210-1303 | Plan Unit Movement | 052 - Engineer (Individual) | Approved |
| | 052-244-2106 | Perform Preventive Maintenance on Safety Equipment | 052 - Engineer (Individual) | Approved |
| | 052-244-2109 | Perform Operator Preventive-Maintenance Checks and Services (PMCS) on Test, Measurement, and Diagnostic Equipment (TMDE) | 052 - Engineer (Individual) | Approved |
| | 052-244-2117 | Perform Preventive-Maintenance Checks and Services (PMCS) on a Mobile Electric Power (MEP)-810A or B Generator | 052 - Engineer (Individual) | Approved |
| | 052-244-2118 | Perform Preventive-Maintenance Checks and Services (PMCS) on a Mobile Electric Power (MEP)-012 or -208 Generator | 052 - Engineer (Individual) | Approved |
| | 052-244-2142 | Prepare a Power Plant for Movement | 052 - Engineer (Individual) | Approved |
| | 052-244-2143 | Perform Preventive-Maintenance Checks and Services (PMCS) on a Mobile Electric Power (MEP)-029 Generator | 052 - Engineer (Individual) | Approved |

Supporting Drill Task(s): None

Supported AUTL/UJTL Task(s):

| Task ID | Title |
|-----------|------------------------------|
| ART 4.5.4 | Supply Mobile Electric Power |

TADSS

| Step ID | TADSS ID | Title | Product Type | Quantity |
|--------------------|----------|-------|--------------|----------|
| No TADSS specified | | | | |

Equipment (LIN)

| Step ID | LIN | Nomenclature | Qty |
|------------------------|-----|--------------|-----|
| No equipment specified | | | |

Materiel Items (NSN)

| Step ID | NSN | LIN | Title | Qty |
|-----------------------------|-----|-----|-------|-----|
| No materiel items specified | | | | |

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. .

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. .